



Q.14	<p>Draw appropriate Venn diagram for each of the following;</p> <p>i) <math>(A \cup B)'</math>                      ii) <math>A' \cap B'</math>                      iii) <math>(A \cap B)'</math>                      iv) <math>A' \cup B'</math></p>
Q.15	<p>There are 45 students in Biology class and 65 students in Computer Science class. Find the number of students which are either in Biology or in Computer class in the following cases.</p> <p>ii) The two classes meet at the same hour</p> <p>iii) The two classes meet at different hours and 30 students are enrolled in both the subjects.</p>
Q.16	<p>Given: For two finite sets A and B, <math>n(A-B) = 12+x</math>, <math>n(B - A) = 3x</math> and <math>n(A \cap B) = x+1</math>. If <math>n(A) = n(B)</math>, find the value of x and hence <math>n(A)</math>.</p>
Q.17	<p>Out of 100 boys in a club, 65 likes to play cricket, 40 like to play Tennis, 55 likes to play volleyball, 25 likes to play both cricket and Tennis, 24 likes to play both Tennis and Volleyball, 22 likes to play Volleyball and cricket. All of them like to play at least one of the games. How many boys play</p> <p>i) All the three games</p> <p>ii) Cricket only</p> <p>iii) Tennis only.</p>
Q.18	<p>In a survey of 60 people, it was found that 25 people read newspaper H, 26 read newspaper T, 26 read newspaper Z, 9 read both H &amp; Z, 11 read both H &amp; T, 8 read both T &amp; Z, 3 read all three newspapers. Find</p> <p>i) The number of people who read at least one of the newspapers.</p> <p>ii) The number of people who read exactly one newspaper</p>
Q.19	<p>In a class of 140 students, 60 play football, 68 play hockey and 75 play cricket, 30 play hockey and cricket, 18 play football and cricket, 42 play football and hockey and 8 play all the three games. Use Venn diagram to find number of students:</p> <p>i) who do not play any of the three games.</p> <p>ii) who play only cricket</p> <p>iii) who play exactly two of the games.</p>

Answers						<b>1</b>	300
	<b>2</b>	450	<b>3</b>	1170	<b>4</b>	7	<b>5</b> 4
	<b>6</b>	-	<b>7</b>	-	<b>8</b>	-	<b>9</b> -
	<b>10</b>	-	<b>11</b>	8, 6	<b>12</b>	-	<b>13</b> -
	<b>14</b>	-	<b>15</b>	110, 80	<b>16</b>	6, 25	<b>17</b> 11, 29, 2
	<b>18</b>	52, 30	<b>19</b>	19, 35, 66			